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ABSTRACT

A material for shadow mask having the following composition of components: C ≤ 0.0008 wt%, Si ≤ 0.03 wt%, Mn: 0.1 to 0.5 wt%, P ≤ 0.02 wt%, S ≤ 0.02 wt%, Al: 0.01 to 0.07 wt%, N ≤ 0.0030 wt%, B: an amount satisfying the formula: $5 \text{ ppm} \leq \text{B} - 11/14 \times \text{N} \leq 30 \text{ ppm}$, balance: Fe and inevitable impurities; a method for producing the material; a shadow mask using the material (cold rolled steel sheet); and an image receiving tube equipped with the shadow mask. The material has excellent etching characteristics, which are uniform within the same coil, and excellent press formability.

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